Appendix F. Compliance with PCORI Methods Standards

Summary or	Summary of Compliance with Methodology Standards		
• 1:	In the development of our proposal and execution of our project we		
Standard for	conformed to the PCORI's methodology standards by implementing the following activities: 1)		
Formulating	reviewing the literature at several points in time to around issue related to lay health workers		
Research	roles and the measurement of clinic-community linkages (RA-1), 2) Proposing and		
Questions	documenting a specific mixed methods study protocol (RA-2), 3) working closely with our		
	health system to identity appropriate clinics and populations for the intervention, working		
	with patients to design a role aimed at addressing community resource needs and carefully		
	monitoring and evaluating the implementation of the intervention (RQ-3, RQ-4, RQ-5, RQ-6).		
	We also engaged stakeholders		
	in an ongoing way to ensure that the project was answering relevant questions.		
• 2:	 Our study conformed to the PCORI's methodology standards by 		
Standards	implementing the following activities: 1) Engaging two patient co-investigators who		
Associated with	participated in standing science team meetings, ad hoc activities and dissemination of		
Patient-	findings (PC-1, PC-4), 2) Engaging 12 patients to participate in co-designing the intervention		
Centeredness	(PC-1 PC-2), 3) Engaging community advisory panels to provide stakeholder input and assist		
	with dissemination activities (PC-1, PC-4), 4) Recruiting study participants that represented		
	the spectrum of the		
	 population of interest for focus groups and survey administration (PC-2, PC-3). 		
• 3:	 For this standard, we reference our proposal, Section C.2. Analytic Methods and 		
Standards for	•		
Data Integrity	C.1.e. Choice of Outcomes, and our Study Protocol (IR-2, IR-3, and IR-4). For each of		
and Rigorous	our data sources, the project team has experts which have worked with these types of data		
Analyses	for years and know the strengths and limitations of each source.		
	 We conducted analyses appropriate for each source of data. For survey analyses as 		

- well as abstracted data around CRS activities, we a priori chose to not make any formal statistical tests due to sample size constraints, and instead report the direct responses of the participants (IR-3). For the analysis of healthcare utilization and measurement of patient vitals (such as HbA1c), we conducted matched cohort analyses, comparing patients who utilized the CRS program to demographically-similar patients at a different clinic (IR-2). Unfortunately, our matching process did not produce a comparable matched cohort for patient vitals, so we
 - chose not to perform statistical tests on those measures (IR-5).
- 4:
 Standards for
 Preventing and
 Handling Missing
 Data
- This standard is relevant primarily for survey and quantitative data analyses. We reference our proposal, section C.2.a. There were no missing data in the healthcare utilization data, or in the CRS activity data. For patients who were missing monthly vitals data (such as HbA1c), we conducted multiple imputation via chained equations, controlling for within- person correlation across time (MD-1, MD-2, MD-3). We do not present analyses on these measures, as it was determined that while the matching process produced well-balanced measures for patient healthcare utilization, it was insufficient in producing comparable samples for each individual vital measurement. Finally, for the survey analysis, we report only raw results, with no hypothesis testing. We feel that this is more appropriate than reporting re-weighted raw counts, adjusting for survey response rates. If we were to conduct hypothesis testing, we would certainly account for both survey non-response as well as item
- non-response (MD-1, MD-2).

• 5:	We have attempted to break out CRS activities by clinic whenever it is
Standards for	scientifically meaningful, as we expect the largest source of heterogeneity to come from the
Heterogeneity of	different implementations of the CRS roll at different clinics (HT-1, HT2). Further break-down
Treatment	often ran into issues with sample size. We investigated whether our data could be used to
Effects	provide
	results stratified by age and gender, but ultimately decided that the small cell sizes were more

•	likely to produce spurious findings than to identify subgroups where the CRS was
	particularly effective. (This is a conservative approach, as in general, we do not see large
	effects of the CRS on our outcome measures. As this decision was made before the analytic
	phase, no such
	interaction analyses were performed.)
• 6:	Not applicable. Our study was an exploratory implementation study. It was not
Standards for	a
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• Data	study to develop and analyze data from a patient registry
Registries	, , , , , , , , , , , , , , , , , , , ,
• 7 :	Not applicable. Our study was an exploratory implementation study. It was
Standards for	not a study focused on developing or using data networks.
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Data Networks	
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Facilitating	
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 Structures 	

• 8:	We attempted to produce analyses of utilization data that rule out potential
Standards for	sources of confounding. For analysis of healthcare utilization, our study design is a matched
Causal Inference	interrupted time series design with both pre- and post- periods for CRS patients and their
Methods	controls (CI-1, CI-2, CI-3, CI-4). We are not aware of any changes in intervention or control
	clinics that would confound our results; our contact with clinical staff and leadership helped us
	• come to this conclusion.
• 9:	Not applicable. Our study was an exploratory implementation study. It was
Standards for	not a study that included an adaptive or Bayesian Trial Design
Adaptive and	
Bayesian Trial	
• Designs	
• 10:	Not applicable. Our study was an exploratory implementation study. It was
Standards for	not a study that included studies of any diagnostic tests.
Studies of	
• Diagnostic Tests	
11: Standards for	Not applicable. Our study was an exploratory implementation study. It was not a
Systematic	study that included a systematic review of the literature.
Reviews	